




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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,514	04/15/2004	Toshihide Murakami	251919US-3CONT	6460
22850	7590	10/29/2004	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			ZIMMERMAN, GLENN	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 10/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/824,514	Applicant(s) MURAKAMI, TOSHIHIDE	
	Examiner Glenn Zimmerman	Art Unit 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-5 is/are rejected.
- 7) ☒ Claim(s) 2 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 29 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>0404 & 0704</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Priority

This application filed under former 37 CFR 1.60 lacks the necessary reference to the prior application. A statement reading "This is a continuation of Application No. PCT/JP02/10802, filed October 17, 2003." should be entered following the title of the invention or as the first sentence of the specification. Also, the current status of all nonprovisional parent applications referenced should be included.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Swank et al. U.S. Patent 5,155,411.

Regarding claim 1, Swank et al. disclose a glass funnel for a cathode ray tube (title), which includes a body portion (ref. 15) having an open end formed in a substantially rectangular shape, a neck portion (ref. 14) for housing an electron gun (ref. 26), and a yoke portion (Fig. 1 portion of ref. 14 or 15 with yoke on) connecting between the body portion and the neck portion wherein the yoke portion can have a deflection

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unit mounted on an outer side for deflecting electron beams irradiated from the electron gun, and further including an outwardly projecting bent (ref. 42, 29; Fig. 4 and 5) portion provided along at least a part of an outer peripheral area, where the body portion intersects with a plane perpendicular to a bulb axis, and which includes intersecting points between the outer peripheral area and a plane containing a diagonal axis and the bulb axis, and that the bend portion is positioned so as to satisfy $L/D \leq 1/2$, wherein a distance between a boundary between the body portion and the yoke portion, and the bend portion, and a distance between the boundary between the body portion and the yoke portion and the open end are L and D in terms of components in a relevant diagonal direction, respectively, on the plane containing the relevant diagonal axis and the bulb axis. One can clearly see from Figs. 1-5 that L/D is less than $1/2$. The end of the yoke portion is at the end of ref. 36 (ref. 52) and looking at Figs. 1-5 L/D is clearly less than $1/2$.

Regarding claim 3, Swank et al. disclose the glass funnel according to claim 1, wherein that the bent portion comprises a projected portion, and that the projected portion has a height of 5 to 50 mm (col. 3 lines 17 and 18 radius of about 10 mm; col. 3 lines 23 and 24 about 7 mm or col. 3 lines 19 and 20 T= about 3 mm and about 3 mm can be 5 mm) on a plane containing a diagonal axis and the bulb axis.

Regarding claim 4, Swank et al. disclose the glass funnel according to claim 1, wherein that the bent portion comprises a stepped portion (Fig. 5 ref. 42), and that the stepped portion has a height of 5 to 50 mm on a plane containing a diagonal axis and

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the bulb axis. (col. 3 lines 17 and 18 radius of about 10 mm; col. 3 lines 23 and 24 about 7 mm or col. 3 lines 19 and 20 T= about 3 mm and about 3 mm can be 5 mm).

Regarding claim 5, Swank et al. disclose a cathode ray tube (ref. 10) using a glass funnel (ref. 15, 11) for a cathode ray tube, which includes a body portion (ref. 15) having an open end formed in a substantially rectangular shape (Fig. 4), a neck portion (ref. 14) for housing an electron gun (ref. 26), and a yoke portion (ref. 11 part where yoke ref. 30 is) connecting between the body portion and the neck portion wherein the yoke portion can have a deflection unit (ref. 30) mounted on an outer side for deflecting electron beams irradiated (ref. 28) from the electron gun, and further including an outwardly projecting bent (ref. 42,29) portion provided along at least a part of an outer peripheral area, where the body portion intersects with a plane perpendicular to a bulb axis, and which includes intersecting points between the outer peripheral area and a plane containing a diagonal axis and the bulb axis, and that the bent portion is positioned so as to satisfy $L/D \leq 1/2$, wherein a distance between a boundary between the body portion and the yoke portion, and the bent portion, and a distance between the boundary between the body portion and the yoke portion, and the open end are L and D in terms of components in relevant diagonal direction, respectively, on the plane containing the relevant diagonal axis and the bulb axis. One can clearly see from Figs. 1-5 that L/D is less than $1/2$. The end of the yoke portion is at the end of ref. 36 (ref. 52) and looking at Figs. 1 and 5 L/D is clearly less than $1/2$.

Allowable Subject Matter

Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 2, the following is an examiner's statement of reasons for allowance: The prior art of record neither shows nor suggests a glass funnel including the combination of all the limitations as set forth in claim 2, and specifically wherein that the bent portion comprises a projected portion, and that the projected portion has a height of 5 to 50 mm on a plane containing a diagonal axis and the bulb axis could not be found elsewhere in prior art.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Stutske U.S. Patent 2,969,162 discloses a Molded Picture Tube. Groothoff et al. U.S. Patent 3,934,169 disclose a Picture Display Device and Deflection Coil Both Having Self-Aligning Surfaces. Andre et al. U.S. Patent 4,130,837 disclose an Arrangement for Mounting the Deflection System on the Envelope of a Color-Picture Tube. Davis et al. U.S. Patent 2,551,790 disclose Positioning Structure for Cathode-Ray Tubes. Gallaro U.S. Patent 4,528,477 discloses a CRT with Optical Window. Deichman U.S. Patent 2,232,098 disclose a Cathode Ray Tube. Shekels U.S. Patent 2,570,165 disclose a Limited-Area Cathode. Gardiner U.S. Patent 2,603,177 disclose a Method of Making Metallic Television Tube Bodies. Stel et al. U.S. Patent 3,166,211

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discloses a Glass Cathode Ray Tube for Reproducing Images. Gardiner U.S. Patent 2,603,177 discloses Method of Making Metallic Television Tube Bodies.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn Zimmerman whose telephone number is (571) 272-2466. The examiner can normally be reached on M-W 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh D Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Glenn Zimmerman


Vip Patel
Primary Examiner
AU 2879